

# Polymer Add (Thailand) Co.,Ltd.

Office - 106, Chalarempriakiat, Lor 9, Soi 22, Yak 5, Nongbon, Prawet, Bangkok, Thailand 10250

Factory - 188/3, Moo 8, Tambon Bangpu Mai, Amphoe Muang Samut Prakan, Samutprakan, Thailand 10280

Mobile - Thai : 0804531391, English: 0839415475, E-mail – [contact@polymeradd.co.th](mailto:contact@polymeradd.co.th)



## SAFETY DATA SHEET (SDS)

**Product Name:** INKTECH MICROBLEND I45

### 1. Identification of the Substance/Mixture and of the Company/Undertaking

Field	Information
Product Name	INKTECH MICROBLEND I45
Relevant Identified Uses	Additive for gravure, flexo, offset, and UV ink systems
Supplier	Polymer Add (Thailand) Co., Ltd
Office Address	106, Chalarempriakiat, Lor 9, Soi 22, Yak 5, Nongbon, Prawet, Bangkok, Thailand 10250
Factory Address	188/3, Moo 8, Bangpu Mai, Muang Samut Prakan, Samutprakan, Thailand 10280
Mobile (Thai)	0804531391
Mobile (English)	0839415475
Email	<a href="mailto:contact@polymeradd.co.th">contact@polymeradd.co.th</a>

### 2. Hazards Identification

Field	Description
Classification (GHS)	Not classified as hazardous GHS
Label Elements	No hazard pictograms or signal words required
Other Hazards	Fine dust may cause mechanical eye and respiratory irritation May form combustible dust-air mixtures in enclosed areas

### 3. Composition/Information on Ingredients

Substance	CAS Number	Function	% w/w
Micronized Talc	14807-96-6	Rheology control, anti-settling	35.00%
Micronized Mica	12001-26-2	Gloss control, smoothness	30.00%
Amorphous Silica (Synthetic)	7631-86-9	Anti-settling, viscosity aid	3.00%
Zirconium Silicate (Fine)	10101-52-7	Abrasion resistance	4.00%
Barium Sulfate (Fine Grade)	7727-43-7	Opacity, leveling	10.00%
Micronized Polyethylene Wax	9002-88-4	Slip, rub resistance	3.00%
Hydrophobic Fumed Silica	68909-20-6	Flow aid, storage stability	2.00%

### 4. First Aid Measures

- Inhalation:** Remove to fresh air. Seek medical attention if breathing difficulty persists.
- Skin Contact:** Wash skin with soap and water.
- Eye Contact:** Flush eyes with plenty of water for at least 15 minutes. Consult a physician if irritation occurs.
- Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical attention if symptoms develop

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## 5. Firefighting Measures

- **Suitable Extinguishing Media:** Dry chemical, CO<sub>2</sub>, water spray, foam
- **Special Hazards:** Product is not flammable but fine dust may cause explosion in confined spaces
- **Protective Equipment:** Wear self-contained breathing apparatus and protective clothing

## 6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation. Use proper PPE (dust mask, gloves, goggles)
- **Environmental Precautions:** Prevent discharge into water systems or sewers
- **Methods for Clean-up:** Use vacuum equipped with HEPA filter or wet cleaning method. Avoid dry sweeping

## 7. Handling and Storage

- **Handling:** Avoid dust generation. Use only in well-ventilated areas. Ground all equipment
- **Storage:** Store in sealed containers in cool, dry conditions (<30 °C, RH <60%). Avoid humidity.

## 8. Exposure Controls / Personal Protection

Field	Information
Occupational Exposure Limits	<ul style="list-style-type: none"><li>• Talc (respirable dust): ACGIH TLV = 2 mg/m<sup>3</sup></li><li>• Mica (respirable): ACGIH TLV = 3 mg/m<sup>3</sup></li></ul>
Engineering Controls	Provide local exhaust ventilation
Personal Protection	<ul style="list-style-type: none"><li>• Respiratory: Dust mask or P2/N95 respirator</li><li>• Eye Protection: Safety goggles</li><li>• Skin Protection: Protective gloves and clothing</li></ul>

## 9. Physical and Chemical Properties

Property	Value
Appearance	Off-white micronized powder
Odour	Odourless
Moisture Content	< 0.5%
Bulk Density	0.30 – 0.50 g/cm <sup>3</sup>
Solubility in Water	Insoluble
Flash Point	Not applicable (non-flammable solid)
Oil Absorption	50–70 g/100g
Particle Size	D50 = < 8 µm

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## 10. Stability and Reactivity

- **Chemical Stability:** Stable under normal conditions
- **Conditions to Avoid:** High humidity, moisture, open flame, ignition sources
- **Incompatible Materials:** Strong oxidizers
- **Hazardous Decomposition Products:** CO, CO<sub>2</sub>, metal oxides upon combustion

## 11. Toxicological Information

Test	Result
Acute Toxicity	Low expected toxicity based on components
Carcinogenicity	Talc (non-asbestiform) not listed as carcinogen in pure form
Sensitization	Not expected to be sensitizing
Irritation	Dust may irritate eyes, skin, or respiratory system

## 12. Ecological Information

- **Ecotoxicity:** Not expected to pose significant environmental risk
- **Persistence/Degradability:** Inorganic; not biodegradable
- **Bioaccumulation Potential:** Negligible
- **Mobility in Soil:** Low

## 13. Disposal Considerations

- **Waste Disposal:** Dispose of in accordance with local/national regulations as inert solid waste
- **Packaging Disposal:** Recycle clean packaging or dispose as non-hazardous industrial waste

## 14. Transport Information

Mode	Classification
UN Number	Not regulated
Transport Hazard Class	Not applicable
Packing Group	Not applicable
Marine Pollutant	No
Special Precautions	Avoid packaging damage and dust release during transport

## 15. Regulatory Information

- **Chemical Inventory:** All components listed or exempted in TSCA, REACH, DSL, etc.
- **Restrictions on Use:** Not intended for direct food contact or pharmaceutical use
- **Regulatory Compliance:** Meets general industrial safety and chemical handling standards

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## 16. Other Information – INKTECH MICROBLEND I45

- **SDS Version:** 1.0 / 2025
- **Date of Preparation:** July 2025
- **Reason for Issue:** First SDS issued for micronized technical grade
- **Recommended Use:** For industrial ink formulations only
- **Training Advice:** Operators should be trained in powder handling and dust control

### Disclaimer:

This SDS is provided for industrial handling and transportation purposes only. It does not serve as a product specification or guarantee. Polymer Add (Thailand) Co., Ltd shall not be held liable for misuse or mishandling. Final responsibility lies with the user.

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